Transmitters

Type XT/XTi

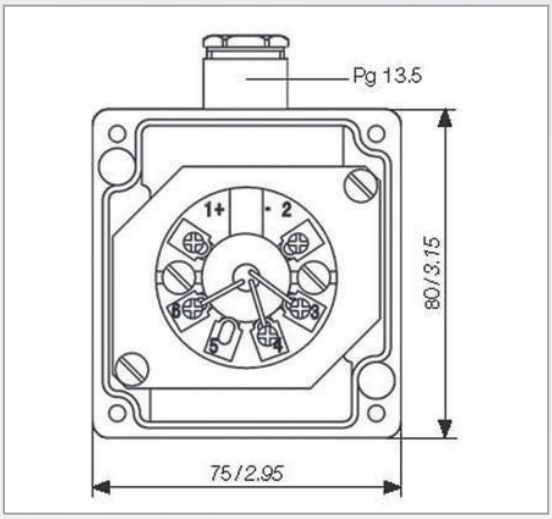
Transmitters for bypass level indicators

Features / Description

The measuring principle and construction of this series are identical to those of the XM series, however the XT series is equipped with a 2-wire transmitter module (instead of simple terminals in the KLS terminal box). This transmitter module (transducer) converts the resistance into a 4...20 mA output signal. For e.g. interface measurement the output signal can also be inverted (20...4 mA). A version with linearisation of the tank content graph is available as an option.

Two versions are available:
XT - Standard version
XTi - EEx i for intrinsically safe applications
Transmitter XT with type MU3L, circuit monitoring with selective fault recognition and selective output control (Namur NE43) 3.5 mA or 23 mA, reversed polarity protection.
Transmitter XTi with type MUEX, intrinsically safe transmitter module with ATEX approval EEx ia IIC T1...T6, reversed polarity protection and fault recognition with selective output control (Namur NE 43) 3.5 mA or 23 mA.

Dimensions (mm / *inch*)

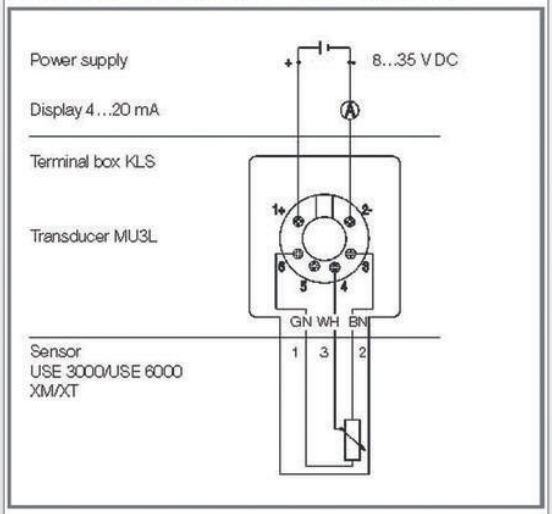


Technical Data

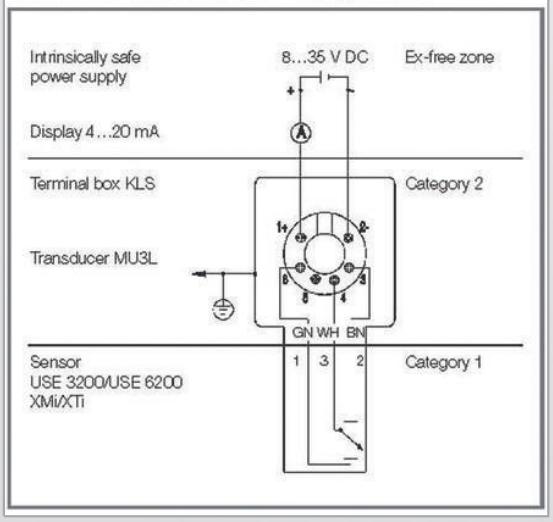
Power supply: XT: Xti:	 8…35 VDC, max. 10% residual ripple 8…24 VDC, max. 10% residual ripple
Output:	4…20 mA, reversed polarity protected
Load:	max. 700 Ohm at 24 V
Delay:	0.33 sec
Accuracy:	max. ±0.2% f. s.
Temperature range: XT: XTi:	 -40 °C... +85 °C -50 °C…+150 °C for high-temperature version T1…T4: -40 °C…+85 °C T5 and T6: -40 °C…+60 °C
Note	The configuration of the selective output control for fault recognition is ≤3.5 mA unless expressly specified otherwise in the order.

Circuit diagram

Level sensor with transmitter - Non-Ex application



Level sensor with transmitter - Ex application



Order Code

Order number example for XT:

XT	-	HT	-	R12	-	LM2500

Measuring length LM in mm
Screen R12
HT high-temperature version (option)
Type: XT = KLS (incl. Transducer)

Order number example for XTi :

XTi	-	R12	-	LM2500

Measuring length LM in mm
Screen R12
Type: XTi = KLS (incl. Transducer)